

## ОАП \* 8 – 7 ТУ У 31.3-00214534-036-2004

Fiber optic module-core cables, aramid-yarn armoured, with polyethylene outer sheath

### Mark formation:

ОАП-[a]-[b] [c]8(8x[e])-7

[a] central strength element

- C – steel
- No marks – dielectric

[b] quantity of optical fibers in the cable, possible values

- 32, 48, 64, 80, 96, 104, 112, 120, 128

[c] type of optical fiber

- E – single-mode (ITU-T G.652B)
- A – single-mode with extended wavelength band (ITU-T G.652D, ITU-T G.657A1)
- C – single-mode with non-zero shifted dispersion (ITU-T G.655)
- M – multimode with core and sheath diameter ratio 50 : 125 mm (ITU-T G.651)
- B – multimode with core and sheath diameter ratio 62.5 : 125 mm (IEC 60793-2)

[e] quantity of optical fibers in the module:

- 1 ... 16

Manufacturing of cables in climate version F is possible

It is possible to manufacture cables with gel-filled core or dry core (with water-blocking yarns and tapes)

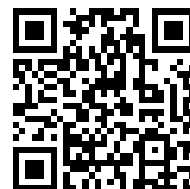
It is possible to manufacture cables with a number of core elements up to and including 18

Order placing: sample of indication (corresponds to configuration pattern)

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Cables are used for:

- suspensions between buildings and facilities, at power substations, at contact-line supports, at communication and lightning, power transmission lines supports



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### TECHNICAL SPECIFICATIONS

|                                                                                      |           |                                       |
|--------------------------------------------------------------------------------------|-----------|---------------------------------------|
| Number of cable core elements                                                        | units     | 8                                     |
| Number of optical fibers in cable                                                    | units     | 32 ... 128                            |
| Electrical resistance of sheath insulation, not less than                            | MOhm · km | 2000                                  |
| Permissible tensile force                                                            | kN        | 7                                     |
| Permissible crushing force, no less than                                             | N/10 sm   | 3000                                  |
| Operating temperature range                                                          | °C        | -40 ... +60                           |
| Operating temperature range (in climate version F)                                   | °C        | -60 ... +60                           |
| Cable weight (approximate, depending on construction)                                | kg/km     | 170 ... 200                           |
| Rated outer diameter of the cable (for reference only, depending on construction) ** | mm        | 15 ... 16                             |
| Minimum bending radius during laying                                                 | mm        | 320                                   |
| Rated factory cable length and gross weight of the delivery on the drums ***         | m, t      | # 12a: 2360 · 0.5<br># 14: 3210 · 0.7 |

Notes:

When ordering it is necessary to agree the factory length of the product with the manufacturer

\*\* The external diameter may differ from the rated up to  $\pm 10\%$

### CONSTRUCTION

1. Central dielectric strength element
2. Optic fibers
3. Tube of fiber optic module
4. PET film winding
5. Polyethylene inner sheath
6. Aramid-thread layer
7. Polyethylene outer sheath

Notes:

- Optical module twisting is not illustrated.
- It is possible to manufacture cables with gel-filled core or dry core (with water-blocking yarns and tapes)
- It is possible to manufacture cables with a number of core elements up to and including 18

